INSTALLATION, OPERATION AND MAINTENANCE INSTRUCTIONS

KESSEL Closure Valve

for KESSEL *Aqualift®-F* lifting stations for wastewater with or without sewage

Order Nr. 28 683, 28 694

Product Advantages

- **Quick installation**
- **Rotatable outlet connection**
- **Easy operation**
- **High pressure resistance**

☐ **Installation** ☐ **Service**
of this unit should be carried out by a licensed professional servicer:

Name/Sign Date Town Company stamp

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Subject to technical amendments

Safety Instructions

This instruction handbook contains important security advices which must be followed at all times during installation, operation, maintenance and repair of the power unit. The security advices are labelled as follows.

General warning sign according to ISO 3864-B-3-1 tagging endangering of persons.

Warning sign according ISO 3864-B-3-6 to caution against voltage.

Caution

This word indicates security advices, disregarding these will cause severe danger for the station and it's function.

This instruction handbook must be available at all times in the station.

Dear customer,

We are happy, you decided to choose a product made by KESSEL.
Before leaving the factory the whole station has been subject to a strict quality control. However, we kindly ask you to check whether the station has been delivered completely and without any damage. In case of transport damage, please look for the regulations in chapter „guarantee" of this instruction.

Prior to installation and putting into operation of the Aqualift – it is in your interest - and essential that you carefully read and follow the installation-, operation-, maintenance- and repair instructions.

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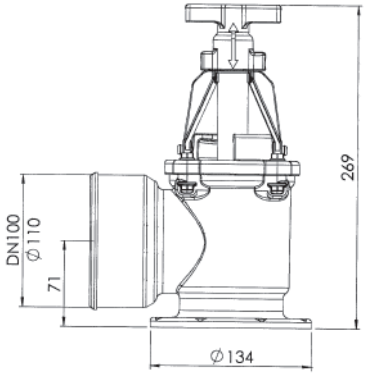
2. General

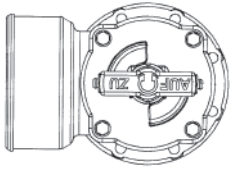
The KESSEL closure valve is available separately as an accessory or may be already integrated in a KESSEL Aqualift F lifting station for wastewater with or without sewage. The lifting station should be installed in frost and weather protected rooms.

The closure valve consists of the following operational elements (see Illustration 1)

ill. 1

Closure valve dimensions





ill. 2

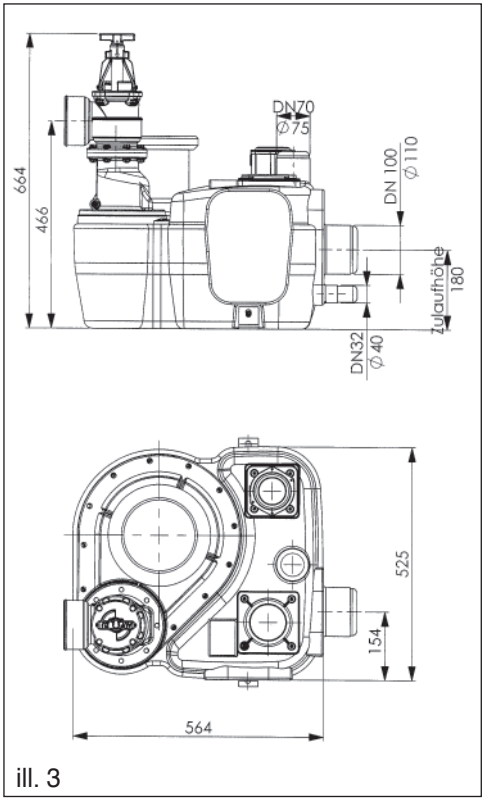
InIn order for the KESSEL closure valve to operate properly it should only be connected to the appropriate KESSEL lifting station – the appropriate lifting stations are list in the Installation and Assembly portion of this manual. If the closure valve is to be used on different pumps then additional parts are required. If this is the case the installation company is responsible for proper installation of the closure valve.

Excessive force should not be applied to the closure valve such as using it as a step. Damage occuring to the closure valve from impropery installation, operation or use are not covered under this product's warranty.

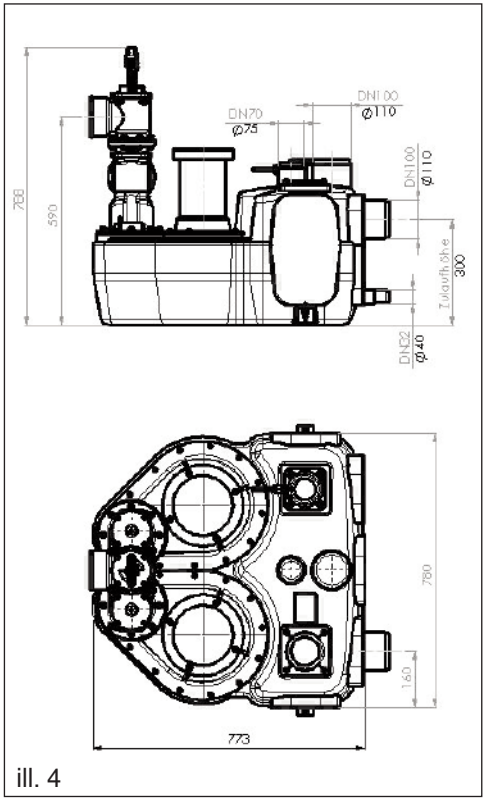
3. Technical Data

KESSEL Closure Valve dimension installed on an KESSEL *Aqualift® F l*ifting station

Il. 3 shows a single pump*Aqualift®-F*
Il. 4 shows a twin pump *Aqualift®-F*



ill. 3



ill. 4

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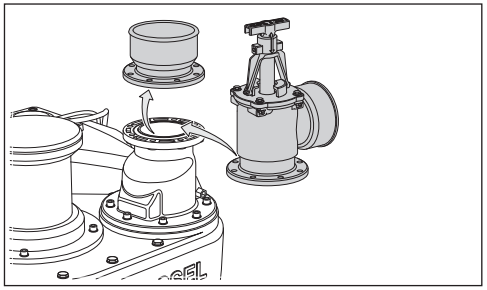
3. Technical Data

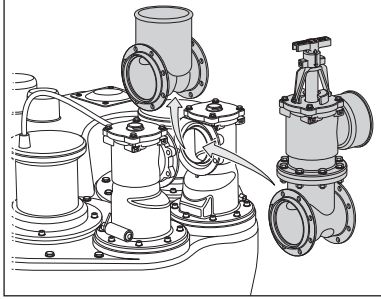
A licensed installation company should install the closure valve on the Aqualift F lifting station. Insallation requires the following

- ➤ Disconnecting the Aqualift F lifting station from its power source
- ➤ Assuring that no wastewater enters the lifting station during installation (all drainage fixtures connected to the lifting station must not be used or operated
- ➤ During installation, workers should wear protective clothing to prevent bodily contamination with the septic wastewater. Smoking, eating or drinking during installation is not allowed.

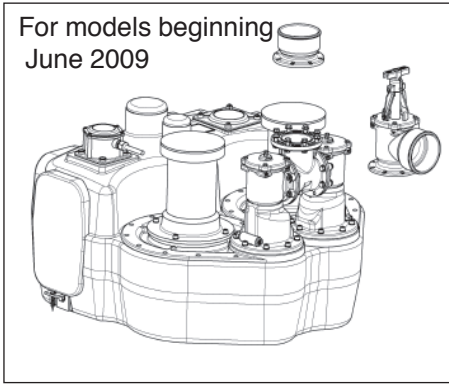


ill. 5

For models up to and incl. May 2009



For models beginning June 2009



ill. 6

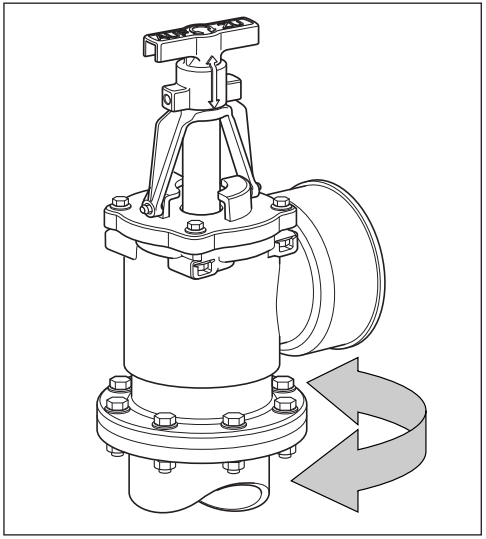
ill. 7

ill. 8

4. Installation and Assembly

Gaskets should be properly lubricated before the closure valve is installed. Once the closure valve has been installed, it should be connected or reconnected to the pressure piping – be sure that all gaskets are seated properly.

In order to better meet on-site requirements, the closure valve is rotatable in 45 degree increments (Illustration 9)



ill. 9

ATTENTION:

- The T-section on twin pump lifting stations should only be installed in the vertical position (see Illustrations 6 and 8). Installing the closure valve in a non-vertical position makes it impossible to firmly secure the fastening bolts which could result in a non-water tight connection.
- The connection from the closure valve's outlet to the on-site pressure drainage pipe should only be done with the included flexible hose connector (see lifting station installation and operation manual)

4. Installation and Assembly

After the closure valve has been installed on a single or twin pump KESSEL *Aqualift® F* Lifting Station – it should look like one one of the units shown below:

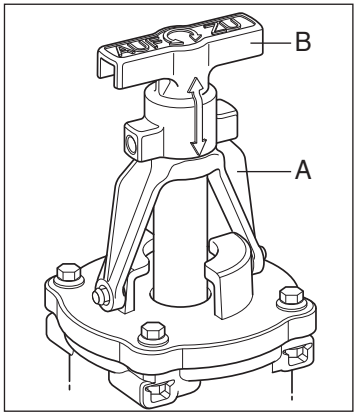
ill. 10

ill. 11

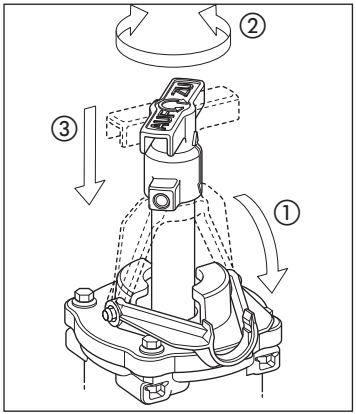
5. Operation

The closure valve makes it possible to easily close off the outlet pressure pipe before doing any type of service work on the lifting station – for example servicing / cleanign the integrated non-return flap inside the lifting station's outlet.
During normal lifting station operation, the closure valve should be in the open position (red handle (B) in the up position and the safety lock (A) locked into place (Ill. 12).

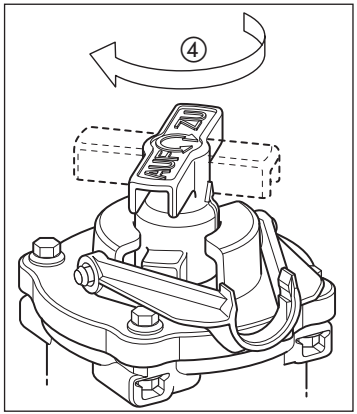
To close the closure valve first lower the safety lock (A) 90 degrees to the horizontal position (Illustration 13 Number 1).
Now push down the red closure handle (Number 2) (a twisting motion while pushing down the red handle makes this easier). Once in the down position, the red closure handle should be turned in the clockwise direction (Ill. 14 Number 4) so that the base of the handle is securely locked in the recessed plastic holders. The closure valve now is in the closed / shut off position (Ill. 15).
To open the closure valve perform the above steps in the reverse order. Once open, it should be checked that the red closure handle is in the fully up position and that the safety lock is re-clipped into place to assure that the closure handle is not unintentionally closed.



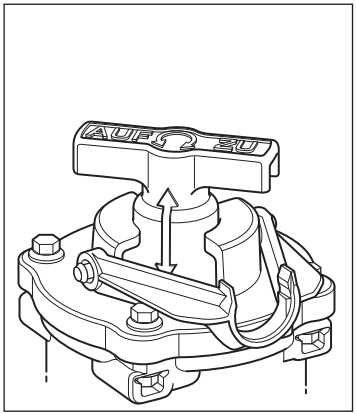
ill. 12



ill. 13



ill. 14


ill. 15

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6. Inspektion und Wartung

During inspection and maintenance of the Aqualift F Lifting Station, the closure valve should also be inspected and serviced if required. In the closed position, no more than 1 liter of water should pass through the closure lock within a period of 15 minutes.

Note: Disassembling the closure valve is not allowed. Defective parts should be replaced with only original KESSEL replacement parts.

7. Warranty

1. In the case that a KESSEL product is defective, KESSEL has the option of repairing or replacing the product. If the product remains defective after the second attempt to repair or replace the product or it is economically unfeasible to repair or replace the product, the customer has the right to cancel the order / contract or reduce payment accordingly. KESSEL must be notified immediately in writing of defects in a product. In the case that the defect is not visible or difficult to detect, KESSEL must be notified immediately in writing of the defect as soon as it is discovered. If the product is repaired or replaced, the newly repaired or replaced product shall receive a new warranty identical to that which the original (defective) product was granted. The term defective product refers only to the product or part needing repair or replacement and not necessarily to the entire product or unit. KESSEL products are warranted for a period of 24 month. This warranty period begins on the day the product is shipped form KESSEL to its customer. The warranty only applies to newly manufactured products. Additional information can be found in section 377 of the HGB. In addition to the standard warranty, KESSEL offers an additional 20 year warranty on the polymer bodies of class I / II fuel separators, grease separators, inspection chambers, wastewater treatment systems and rainwater storage tanks. This additional warranty applies to the watertightness, usability and structural soundness of the product.
   A requirement of this additional warranty is that the product is properly installed and operated in accordance with the valid installation and user's manual as well as the corresponding norms / regulations.

2. Wear and tear on a product will not be considered a defect. Problems with products resulting from improper installation, handling or maintenance will also not be considered a defect.

   Note: Only the manufacturer may open sealed components or screw connections. Otherwise, the warranty may become null and void

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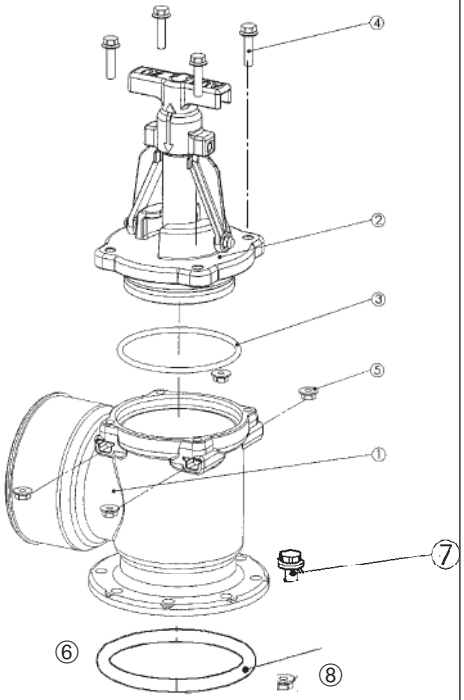
9. Replacement Parts



ill. 16

Pos.Nr.	*Amount*	*Article Number*	*Description*
1	1	240-053	90 degree outlet housing DN 100
2	1	240-035	Closure assembly
3	1	240-027	O-ring
4	4	240-058	Securing bolts M6
5	4	240-059	Securing nuts M6

Connection with lifting station*

Pos.Nr.	*Amount*	*Article Number*	*Description*
6	1	240-037	O-ring
7	8	240-038	Securing bolts M8
8	8	240-039	Securing nuts M8

- ❑ Backwater protection
- ❑ Lifting Stations and pumps
- ❑ Drains and shower channels
- ❑ Separators
  - -Grease Separators
  - -Oil-/Fuel-/Coalescence Separators
  - -Starch Separators
  - -Sediment Separators
- ❑ Septic Systems
- ❑ Inspection Chambers
- ❑ Rainwater Management Systems

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